

The Files

6 February 1958

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Dial of OS-4 Agent VFO

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1. On 3 February 1958, the writer conferred with Mr. [REDACTED] G&T/BB, regarding the OS-4 Agent VFO now being developed by the [REDACTED]. Specifically considered was Section 2.2.1. of the OS-4 specification which reads "When the associated transmitter is doubling or tripling the VFO frequency, the VFO dial shall be capable of being set to read the transmitted frequency without ambiguity". Although the VFO itself operates in the 3-10 mc range only, this provision of the specification requires additional readings on a 6-20 mc scale and a 9-30 mc scale to which the operator refers when he is doubling or tripling in his transmitter.

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2. The [REDACTED] Company has submitted to [REDACTED] an estimate of \$633.00 for a special three band counter to indicate the second and third harmonic of the OS-4 frequency, as well as the fundamental. This cost, the unit price in lots of 10, reflects the complexity of the frequency indicator required by our specifications.

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3. Mr. [REDACTED] agreed that the cost of such a sophisticated dial was prohibitive and that the requirement for direct indication of harmonic frequencies should be removed from our specifications. This would allow the contractor to deliver a 3-10 mc VFO with a single dial reading at all times the true output frequency of the VFO (in kilocycles). If the operator were doubling or tripling in the associated transmitter, he would have to multiple the VFO reading by 2 or by 3 to obtain his transmitted frequency.

4. A similar problem is encountered in the RT-17 VFO which was originally designed to have a two band dial. Mr. [REDACTED] also agreed that we should modify the RT-17 specification to allow [REDACTED] to use a one band dial.

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5. On 4 February 1958, in response to a telephone inquiry, Mr. [REDACTED] said he had obtained the concurrence of Mr. William [REDACTED] CC-G&T to the specification changes in the OS-4 and RT-17 noted above.

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